ASG53m2

ADJACENT TO 6504 MONERO DR RANCHO PALOS VERDES, CA

Granvia Altamira Estates Via Cerrito Monero Dr SITE LOCATION-Rio Linda Dr P osa Dr Ridgepath Ct

VICINITY MAP

GENERAL CONTRACTOR NOTES:

CONTRACTOR SHALL VERIFY ALL

PLANS AND EXISTING DIMENSIONS

AND CONDITIONS ON THE JOB SITE

AND SHALL IMMEDIATELY NOTIFY

THE ENGINEER IN WRITING OF ANY

DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR RESPONSIBLE

PROJECT DESCRIPTION:

- INSTALL CROWN CASTLE FIBER AT 27' 0".
- INSTALL SHROUD KIT #024 WITH (2) ML IONS INSIDE.
- INSTALL DOUBLE CEA WITH (2) 24" AMPHENOL #HTXCWW4513Fxy0 ANTENNAS
- INSTALL CISH-51 PEDESTAL, WITH SIDE MOUNTED METER (TO BE PAINTED
- ANTENNAS AND EQUIPMENT TO BE PAINTED TO MATCH POLE. 100AMP PANEL

120/240V 1PHASE

1.1KW 0TON

SHEET NO. DESCRIPTION TITLE SHEET D-1 DETAILS & NOTES DETAILS & NOTES D-3 DETAILS & NOTES S-1 SITE PHOTOS S-2 PHOTO SIM S-3 PHOTO SIM POLE PROFILE & SITE PLAN SHEET INDEX

PROJECT MANAGERS: CROWN CASTLE NG WEST LLC 300 SPECTRUM CENTER DR STE. 1200 IRVINE, CA 92618 HEIDI PAYNE HEIDI.PAYNE@CROWNCASTLE.COM

FIBER MANAGER:
CROWN CASTLE NG WEST LLC $300~\mathrm{SPECTRUM}$ CENTER DR STE. 1200IRVINE, CA 92618 ALFREDO ARZUBIAGA (818) 939-5579 ALFREDO.ARZUBIAGA@CROWNCASTLE.COM

CONSTRUCTION MANAGERS: CROWN CASTLE NG WEST LLC

300 SPECTRUM CENTER DR STE. 1200 IRVINE, CA 92618 MIKE GILDERSLEEVE (808) 286-8323 MIKE.GILDERSLEEVE@CROWNCASTLE.COM

NODE ENGINEER: COASTAL COMMUNICATIONS 5841 EDISON PL, STE. 110 CARLSBAD, CA 92008 TODD THREW (760) 929-0910 EXT. #101 TODD@COASTALCOMMINC.COM

PROJECT SUMMARY

ASG53m2

242727



300 SPECTRUM CENTER DR STE. 1200 IRVINE, CA 92618 www.crowncastle.com



5841 EDISON PLACE, SUITE 110 CARLSBAD, CA 92008 PHONE: (760) 929-0910 FAX: (760) 929-0936

PROPRIETARY INFORMATION

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UNDERGROUND SERVICE ALERT

PHOTO SIM UPDATED	11/25/14
RELOCATE NODE LOCATION	12/29/15
REVISION / ISSUE	DATE

SITE NAME & ADDRESS

ASG53m2

ADJACENT TO 6504 MONERO DR RANCHO PALOS VERDES, CA

TITLE SHEET

	DRAWN BY: SN	DRAFT DATE: 12/22/14	APPROVED BY
	SHEET NO.		
		TD 1	

PROJECT TEAM

LEGEND DESCRIPTION SYMBOL PROPOSED PEDESTAL EXISTING

ABBREVIATIONS

C&G

CL

EX

EOP

R/W

S/B

ASPHALT CURB

CURB & GUTTER

EDGE OF PAVEMENT PROPERTY LINE

SUBDIVISION BOUNDARY

RIGHT OF WAY

CENTERLINE

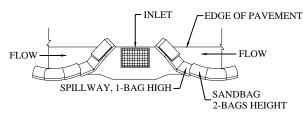
EXISTING

EROSION AND SEDIMENT CONTROL NOTES:

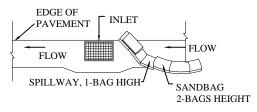
TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW

- ALL REQUIREMENTS OF THE CITY OF RANCHO PALOS VERDES "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE,
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL
- FOLIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REOUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT
- THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEOUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

- INTENDED FOR SHORT TERM LISE
- USE TO INHIBIT NON STORM WATER FLOW
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
 BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
- NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC

NOTES:

- CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS
- CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
- SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEPT AND CLEANED AS NEEDED
- CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
- CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
- THE CONTRACTOR SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING. BUT NOT LIMITED TO PAVING. STRIPING. BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.
- SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF RANCHO PALOS VERDES STANDARD
- PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

- GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, GO95 AND GO128 STANDARDS AND REGULATIONS.
- CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
- ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- ALL EQUIPMENT TO BE BONDED
- METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING. CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF **UNDERGROUND UTILITIES NOTES:**

- LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE DEPT. OF PUBLIC WORKS FOR
- CHANGES MAY BE PERMITTED BY THE DEPT. OF PUBLIC WORKS IN CASES OF CONFLICTING FACILITIES.
- CONFLICTS BETWEEN UTILITY COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
- FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB
- MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

CALIFORNIA STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE

- CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2010 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2010 UBC, 2010 UMC, 2010 UPC AND THE 2010 NEC
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 CALIFORNIA MECHANICAL CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE

THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY

ASG53m2

PHASE II

242727



300 SPECTRUM CENTER DR STE. 1200

PREPARED BY



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UNDERGROUND SERVICE ALERT

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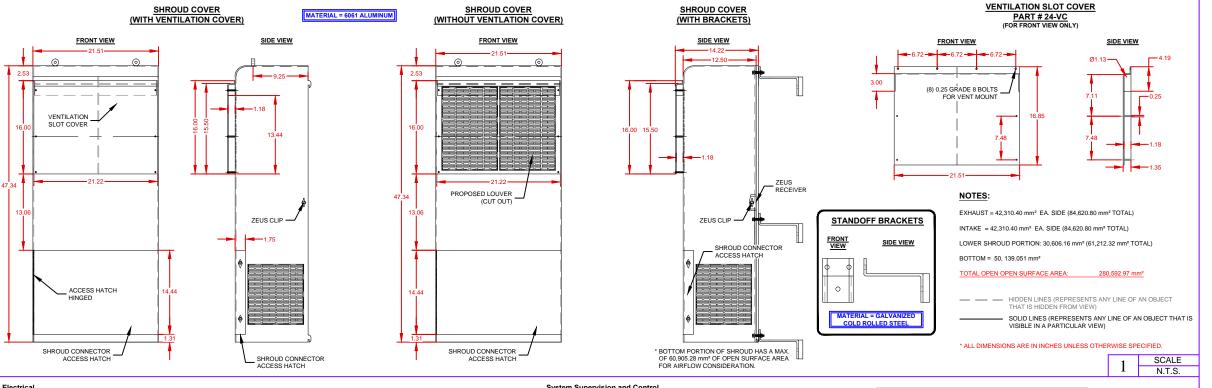
DETAILS & NOTES

SN 12/22/14 RD

D-1

SHROUD KIT 024 REV1

(FOR (2) ION ML UNITS)



Electrical				
				35 to 264 115 or 230
Power consumption, watts				
Optical				
Connectors			(45 minimum Single mode E9/125 0 to 10
				+5 composite +5 composite
Interface				
BTS Side Number of connectors				
	1900 MHz			4
	1700/2100) MHz		4
	oower, dBr	m		
		m		33
System optimized for BTS p Antenna Port	oower, dBr	m		33 43
System optimized for BTS p Antenna Port Connector	oower, dBr	m		33 43 7/16 Female
System optimized for BTS p Antenna Port Connector Output power	oower, dBr	m		33 43 7/16 Female See band specification
System optimized for BTS p Antenna Port Connector Output power	oower, dBr	m		33 43 7/16 Female See band specification
Antenna Port Connector Output power Return loss, dB 1700/2100 MHz (AWS) Frequency range, MHz	Dower, dBr	m		33 43 7/16 Female See band specification
Antenna Port Connector Output power Return loss, dB 1700/2100 MHz (AWS) Frequency range, MHz	Uplink	m		33 43 7/16 Female See band specification 15

.. < -13 dBm / 1 MHz

Spurious emission

Aujacent che	inei power, ui	JC			40	
DL output tol	erance over f	requency,	dB		±1	
DL output tol	erance over t	emperatu	re, dB		0.5***	
Input ICP3, d	lBm					
	ICP3 optimize Noise figure					
Noise figure,	dB					
	ICP3 optimiz	ed			7	
	Noise figure	optimized			11 max. 4.5 6 max.	
1900 MHz (A	WS)					
Frequency ra					350 to 1915 930 to 1995	
Output powe	r per carrier,	dBm*				
Number of C GSM CDMA UMTS LTE	Carriers	1 45 45 45 45	2 42 42 42 42 42**	4 39 39 39 39	8 36 36 36 36	
Spurious em	ission				< -13 dBm / 1	МН
DL output tol	erance over f	requency,	dB		±1	
DL output tol	erance over t	emperatu	re, dB		0.5***	
Input ICP3, d		•				
	ICP3 optimize Noise figure					
Noise figure,	dB					
	ICP3 optimize				11 max.	
	Noise figure	optimized			4.5	

.. 6 max.

Adjacent chanel power, dBc

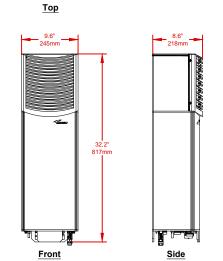
System Supervision and Control ..RF on/off External control parts ..Summary ..Power Supply Optical UL and DL failure .Temperature Output power on a per-Supervision channel and per-band basis (optional) Mechanical**** Height, width, depth mm (in) ..817 x 245 x 218 (32.2 x 9.61 x 8.6) Weight, kg (lb) .40 (88.2) ..-33° C to +50° C Ingress protection Fan part... Applicable to single modulation mode only 3db power reduction @ < 5MHz carrier bandwith

Spacing required 40 mm (1.58 in) around unit
With passive cooling maximum temperature +40° C

All figures are typical values.

ANDREW ION-M17HP/19HP

MULTI-BAND, MULTI-OPERATOR REMOTE OPTICAL SYSTEM



SCALE N.T.S.

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300 SPECTRUM CENTER DR STE. 1200

PREPARED BY



Communications

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ADJACENT TO 6504 MONERO DR RANCHO PALOS VERDES, CA

DETAILS & NOTES

SN 12/22/14 RD

D-2

AMPHENOL 45° TRI-BAND PANEL ANTENNA (Model #HTYCWW4513Eyy())

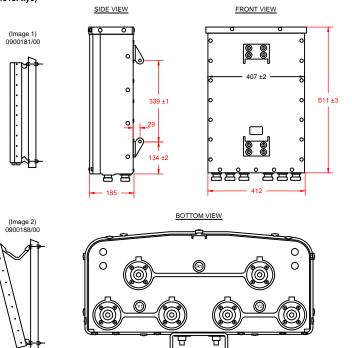
Tri Band | Panel | XXX-Pol | 45° | 13.9 / 14.4 / 14.4 | Fixed Tilt

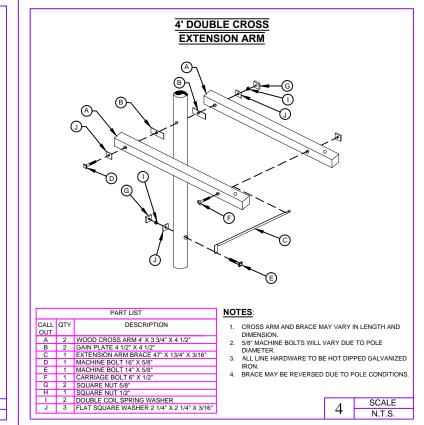
When ordering replace the "x" in the model number with the value of electrical downtilt for the 696-960 MHz frequency and replace the "y" in the model number with the value of electrical downtilt for the 1710-2690 MHz range. Select from the options listed below under Electrical Downtilt.

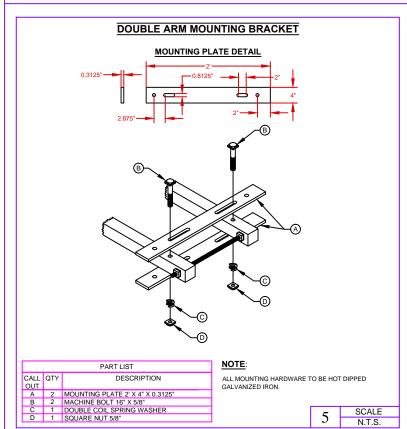
under Liectifical Downlint								
Electrical Characteristics			696-960 MHz			(2x) 1710-2690 MHz		
Frequency bands (MHz)		696-790	790-880	880-960	1710-1880	1920-2170	2200-2690	
Polarization			±45°		(2x) ±45°			
Horizontal beamwidth		47°	42°	37°	49°	42°	38°	
Vertical beamwidth		40.6°	35.4°	30.8°	24.8°	23.0°	21.7°	
Gain		12.2 dBi	13.3 dBi	13.9 dBi	12.9 dBi	14.1 dBi	14.4 dBi	
Electrical downtilt			(x) 0			(y) 0		
Impedance		50Ω		50Ω				
VSWR		≤1.5:1			≤1.5:1			
Front-to-Back Ratio		> 24 dB		> 25 dB				
Isolation Between Bands		> 30 dB		> 30 dB				
Isolation Between Ports		≥ 25 dB			≥ 25 dB			
IM3 (2x20W carrier)		< -150 dBc			< -150 dBc			
Input Power		(2x) 500W			(4x) 300 W			
Lightning Protection		Direct Ground						
Total Number of Connec	tors	Antenna has 6 connectors located at the bottom						
Conservations Design	696-960 MHz		2 Conne	ctors (R1) / 7/	16-DIN Female	/ Bottom		
Connectors Per Band,	1710-2690 MHz		2 Connectors (Y1) / 7/16-DIN Female / Bottom					

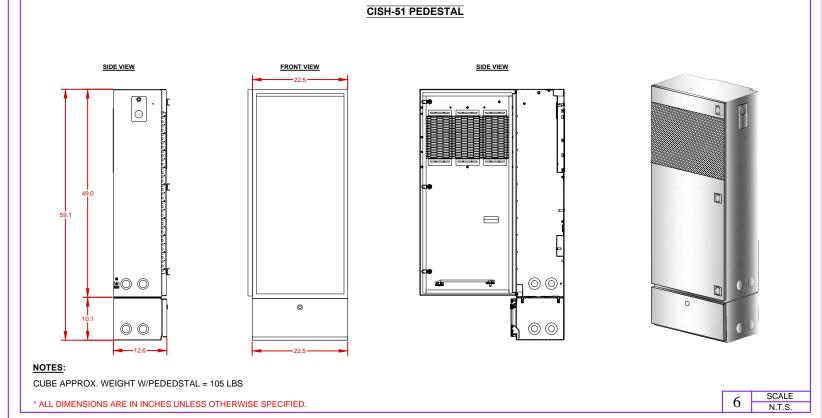
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1710-2690 MHz	2 Connectors (Y2) / 7/16-DIN Female / Bottom		
Mechanical Characteristic	s			
Dimensions (Height x Wid	ith x Depth)	611 x 412 x 185 mm	24.1 x 16.2 x 7.3 in	
Weight without Mounting	Brackets	7.1 kg	15.7 lbs	
Survival Wind Speed		241 km/hr	150 mph	
Wind Loads	Front	0.25 m ²	2.7 ft ²	
Willia Lodas	Side	0.11 m ²	1.2 ft ²	
Wind Loads (160 km/hr	Front	305 N	68 lbf	
or 100 mph)	Sido	10E N	20 lbf	

WITH LOADS (100 KITI/TII	1 IOIIL	303 14		00 101		
or 100 mph)	Side	135 N		30 lbf		
Mounting Options	Part Number	Image	Fits P	ipe Diameter	We	eight
The following mounting ar	The following mounting and downtilt bracket kits are included with the antenna.					
2-Point Mounting Bracket Kit	0900181/00	(see Image 1)	48-115	mm 1.9-4.5 in	3.4 kg	7.5 lbs
Kit to Add Mechanical	0900188/00	(see Image 2)			1.5 kg	3.3 lbs









SCALE

N.T.S.

3

ASG53m2

PHASE II

CROWN CASTLE PROJECT NO.



300 SPECTRUM CENTER DR STE. 1200 IRVINE, CA 92618 www.crowncastle.com

PREPARED BY:



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ASG53m2

ADJACENT TO 6504 MONERO DR RANCHO PALOS VERDES, CA

DETAILS & NOTES

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	SN	12/22/14	RD
1	SHEET NO.		

D-3





B 12 O'CLOCK VIEW A KEY MAP





C 3 O'CLOCK VIEW D 9 O'CLOCK VIEW ASG53m2

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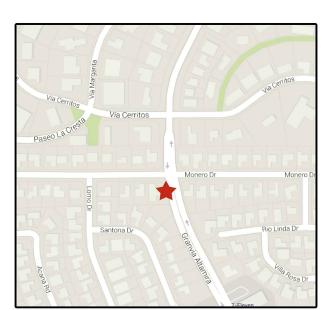
SITE PHOTOS

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SHEET NO.		
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S-1

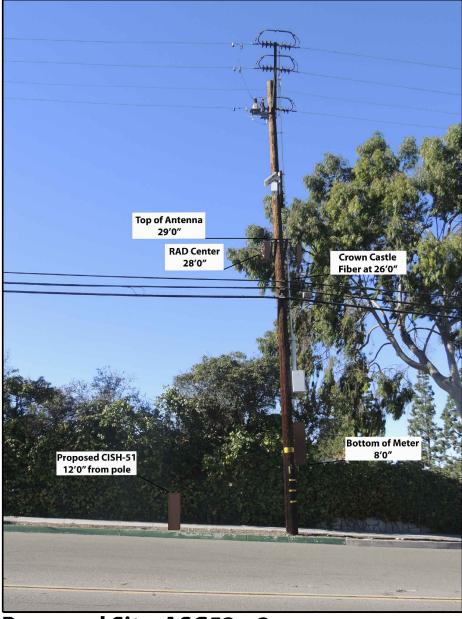


Existing Site



Vicinity Map





Proposed Site ASG53m2

ASG53m2

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LEAST TWO DAYS BEFORE YOU DIG

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SHEET NO.		
	S-2	

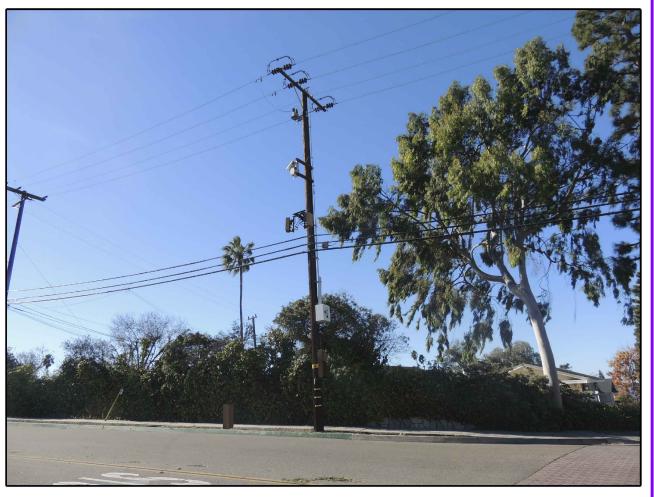


Existing Site



Vicinity Map





Proposed Site ASG53m2

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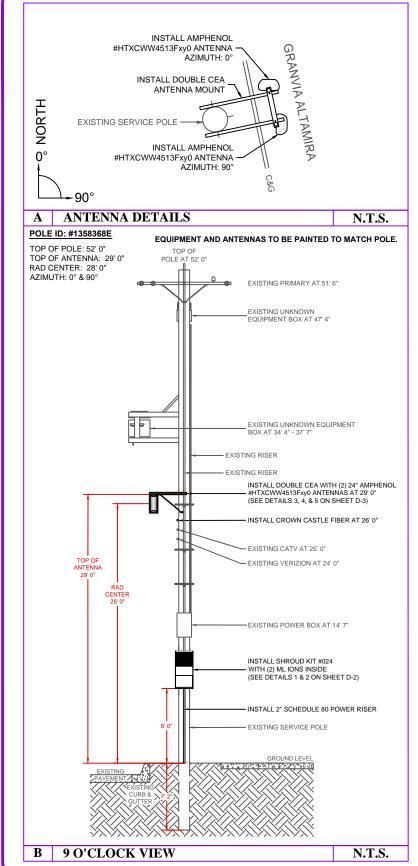
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PHOTO SIM

DRAWN BY: SN	DRAFT DATE: 12/22/14	APPROVED BY
SHEET NO.		
	S-3	



NEW CONSTRUCTION

INSTALL CROWN CASTLE FIBER AT 27' 0".

• INSTALL SHROUD KIT #024 WITH (2) ML IONS INSIDE.

• INSTALL DOUBLE CEA WITH (2) 24" AMPHENOL #HTXCWW4513Fxy0 ANTENNAS AT 29' 0".

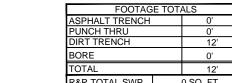
• INSTALL CISH-51 PEDESTAL, WITH SIDE MOUNTED METER (TO BE PAINTED BROWN).

ANTENNAS AND EQUIPMENT TO BE PAINTED TO MATCH POLE.

100AMP PANEL

120/240V 1PHASE

1.1KW 0TON



FOOTAGE TOTALS		
ASPHALT TRENCH		0'
PUNCH THRU		0'
DIRT TRENCH		12'
BORE		0'
TOTAL		12'
R&R TOTAL SWP		0 SQ. FT.

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PREPARED BY

CROWN

CASTLE NG WEST LLC

Communications



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	RELOCATE NODE LOCATION

SITE NAME & ADDRESS

SCALE: 1'' = 50'

ASG53m2

ADJACENT TO 6504 MONERO DR RANCHO PALOS VERDES, CA

> POLE PROFILE & SITE PLAN

DRAWN BY:	DRAFT DATE:	APPROVEI
SN	12/22/14	RD
SHEET NO.	•	

P-1

